

CLAIMS

What is claimed is:

1. A wall panel (10) comprising a first opening (30) and a second opening (32), wherein the first opening (30) is above the second opening (32), with a channel (28) therein for directing air between the first (30) and second (32) openings,
a fan (34) within the channel (28) that, when activated, will urge air to move
5 from the first opening (30) toward the second opening (32), characterized by:
a heat exchanger (38) disposed within the channel (28),
whereby when the fan (34) and heat exchanger (38) are actuated, air will be drawn into the channel (28) from the first opening (30), heated or cooled within the channel (28), and exhausted from the second opening (32) at a different temperature
10 from air entering the first opening (30).
2. The wall panel (10) of claim 1, wherein the heat exchanger (38) is located downstream from the fan (34).
3. The wall panel (10) of claims 1 or 2, wherein the second opening (32) is at a lower end (15) thereof.
4. The wall panel (10) of claim 3, further comprising a pair of parallel flat surfaces (12, 14) and a rail (22) located along the bottom edge (17) of one of the flat surfaces (12),
wherein the second opening (32) is disposed above the rail (22).
5. The wall panel (10) of any of claims 1-4, wherein the first opening (30) is at an upper end (13) thereof.
6. The wall panel (10) of claim 5, further comprising a top edge (20),
wherein the first opening (30) is located on the top edge (20).
7. The wall panel (10) of any of claims 1-6, wherein the channel (28) is a duct (50).

8. The wall panel (10) of claim 7, wherein the duct (50) is constructed of metal.
9. The wall panel (10) of any of claims 1-8, wherein the fan (34) is an impeller fan (35).
10. The wall panel (10) of any of claims 1-9, wherein the heat exchanger (38) heats the air.
11. The wall panel (10) of claim 10, wherein the heat exchanger (38) is a resistance heater (41).
12. The wall panel (10) of any of claims 1-11, wherein the fan (34) and the heat exchanger (38) are removable from the channel (28).
13. The wall panel (10) of any of claims 1-12, wherein an insulation block (84) is disposed between the fan (34) and the heat exchanger (38).
14. The wall panel (10) claim 13, wherein the insulation block (84) is removable from the channel (28).
15. The wall panel (10) of any of claims 1-14, further comprising a heat/air deflector (76).
16. The wall panel (10) of claim 15, wherein the heat/air deflector (76) comprises two downwardly angled deflection wings (94).
17. The wall panel (10) of claims 15 or 16, wherein the heat/air deflector (76) is removable from the channel (28).
18. The wall panel (10) of any of claims 1-17, wherein the wall panel (10) is modular.
19. A modular wall panel (10) comprising a first opening (30) at an upper end (13) thereof and a second opening (32) at a lower end (15) thereof with a channel (28) therein for directing air between the first (30) and second openings (32),

5 a modular housing (42) adapted to be removably mounted to the wall panel
(10) within the channel (28), said modular housing (42) having a fan (34) and a heat
exchanger (38),

whereby when the modular housing (42) is mounted, the fan (34) and heat
exchanger (38) will be disposed to move air from the first opening (30) to the second
opening (32) and heated or cooled before being exhausted from the second opening
10 (32).